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**HELEN SAMSON**

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/Helen Samson/

\_\_\_\_\_  
MARCH 14, 2007

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Signature

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Date

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the Application of:	Demidov et al.	Attorney Docket No.:	NU-207WO-1
Serial No.:	10/714,524	Confirmation No.:	2224
Filed:	11-14-2003	Art Unit:	2874
Customer No.:	000038731	Examiner:	Kim, Ellen E
Title:	<b>OPTICAL FIBER AND SYSTEM CONTAINING SAME</b>		

**EXAMINER INTERVIEW SUMMARY RECORD**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Introduction**

Examiner Ellen Kim phoned Applicants' Attorney Peter Rainville on Tuesday, February 27, 2007 regarding the above-identified application. Additional phone conversations took place between Tuesday, February 27, 2007 and Friday, March 2, 2007. As the Examiner initiated the conversations, Applicants' Attorney understands that the Examiner may make a record of the interview and could indicate that a further summary of the interview by Applicants' Attorney is not required. However, given that more than one conversation took place, to ensure compliance with MPEP § 713.04, Applicants' Attorney files herewith a summary of the conversations.

## Interview Summary

Examiner Ellen Kim phoned Applicants' Attorney Peter Rainville on Tuesday, February 27, 2007 regarding the above-identified application. She noted that claims 1-95 were considered allowable. Although claims 96-121 were not rejected, she requested discussion regarding claims 96-121 and US Publication No. 2003/0021302, entitled "Raman Cascade Light Sources". During subsequent conversation between Tuesday, February 27, 2007 and Friday, March 2, 2007, Chang et al., Electronics Letters, vol. 35, pages 1951-952 (1999), noted at columns 7 and 172 of the '302 publication, as well as US Patents 6,163,554 and 6,426,965 to Chang et al., were noted. It was agreed that the neither the '302 publication nor the aforementioned Chang affected the patentability of the claims. Examiner Kim then noted US Patent No. 6,275,632, entitled "High Power Fiber Gain Media System Achieved through Power Scaling via Multiplexing" as regards claim 106. It was agreed that the '632 patent did not teach or suggest the invention as recited in claim 106. Examiner Kim requested comments be faxed to her regarding the '632 Patent and claim 106.

The following comments were faxed to Examiner Ellen Kim on March 2, 2007 at fax no. (571) 273-2349:

Requested comment re: claim 106 of pending Application No. 10/714,524, Attorney Docket No. NU207WO-1 & figure 22 and accompanying description thereof in US 6,275,632:

Claim 106 recites "... said Raman laser or amplifier comprising an optical fiber having a plurality of sections, with at least two of the plurality of sections having Raman gain media containing different active materials for creating Stoke-shifted energy ... ."

The apparatus of figure 22 of the '632 patent fails to meet at least the foregoing limitation. See column 22, starting at line 4, of the '632 patent, describing laser 62C as an "Yb doped fiber laser, pumped by semiconductor or fiber pump source 61C". Fiber laser 62C is thus a conventional rare-earth doped fiber laser and is not taught as using a "Raman gain media ... for creating Stoke-shifted energy" as recited in claim 106. The '632 patent includes no teaching or suggestion that Raman laser 63A of figure 22 comprise "... a plurality of sections, with at least two of the plurality of sections having Raman gain media containing *different* active materials for creating Stoke-shifted energy ... ." as recited in claim 106.

No admission is made that the '632 patent discloses other limitations of claim 106 not addressed in this comment.

A copy of the foregoing facsimile is attached.

The foregoing is considered to be a complete summary of the substance of the interview.

Dated: March 14, 2007

Respectfully submitted,

By /Peter J. Rainville/  
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### Fax Cover Sheet

<b>To:</b>	Examiner Ellen E. Kim	<b>From:</b>	Peter Rainville
<b>Fax:</b>	(571) 273-2349	<b>Pages:</b>	One - this sheet
<b>Phone:</b>	(571) 272-2349	<b>Date:</b>	March 2, 2007
<b>Re:</b>	Application 10/714,524 Attorney Docket No. NU207WO-1	<b>CC:</b>	

☐ **Urgent**    ☒ **For Review**    ☐ **Please Comment**    ☐ **Please Reply**    ☐ **Please Recycle**

Requested comment re: claim 106 of pending Application No. 10/714,524, Attorney Docket No. NU207WO-1 & figure 22 and accompanying description thereof in US 6,275,632:

Claim 106 recites "... said Raman laser or amplifier comprising an optical fiber having a plurality of sections, with at least two of the plurality of sections having Raman gain media containing different active materials for creating Stoke-shifted energy ... "

The apparatus of figure 22 of the '632 patent fails to meet at least the foregoing limitation. See column 22, starting at line 4, of the '632 patent, describing laser 62C as an "Yb doped fiber laser, pumped by semiconductor or fiber pump source 61C". Fiber laser 62C is thus a conventional rare-earth doped fiber laser and is not taught as using a "Raman gain media ... for creating Stoke-shifted energy" as recited in claim 106. The '632 patent includes no teaching or suggestion that Raman laser 63A of figure 22 comprise "... a plurality of sections, with at least two of the plurality of sections having Raman gain media containing *different* active materials for creating Stoke-shifted energy ... " as recited in claim 106.

No admission is made that the '632 patent discloses other limitations of claim 106 not addressed in this comment.

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